DVS

A Rohde & Schwarz Company

PASSION FOR PERFECTION

VENICE

THE MULTI-CHANNEL VIDEO SERVER

www.dvs.de

"In addition to real-time ingest and play-out, VENICE's playlist has significantly improved our workflow. Handling large amounts of clips has become a true breeze. Thanks to VENICE's intuitive GUI and its seamless collaboration with DVS's SpycerBox, CG production has gained enormous efficiency, especially with numerous designers working at the same time. DVS's integrated solution is now at the heart of our workflow."

Masaaki Watanabe, Sports Graphics Designer at TV Asahi

- Video server for broadcast environments
- Multi-channel and multi-format system
- Native support of DNxHD®, XDCAM®, DVCPRO®, AVC-Ultra and Apple ProRes 422
- Record, play-out and transcoding of MXF OP-Atom, OP-1a, QuickTime® and GXF files
- Process SD and HD data in parallel for simulcast operation
- Hardware scaler for up- and down-conversion in real time
- High-quality ingest and play-out up to 440 Mbit/s
- Support of various uncompressed file formats such as DPX, TGA, TIFF and BMP sequences
- Batchlist recording and transcoding
- Run-down lists, presets and scenarios for smooth operation
- Combine video and IT workflows in any broadcast environment
- Data interfaces for connecting P2 and XDCAM® drives
- Avid® Workflow Option for fast file and signal ingest into Avid ISIS® and Interplay® production asset management (PAM)
- Full architectural openness; can be embedded in any existing production environment
- Support of MOS, VDCP and SOAP-API (web service) for controlling via third-party applications
- Connect to DVS-SAN or other SANs via Fibre Channel
- RAID-6 protected internal media storage

VENICE

THE MULTI-CHANNEL VIDEO SERVER

Are you in the process of leaving your tape-based environment behind? The multi-channel video server VENICE is an essential step into the file-based world of broadcast. With VENICE, DVS leverages its longstanding expertise developing high-performance workflows to meet the requirements of professional video and broadcast. Based on advanced DVS technology, VENICE enables fast and efficient processing of various compressed and uncompressed formats. The DVS system is a solid server for content ingest, play-out, and transcoding, and includes built-in secure and quickly accessible RAID storage. Use VENICE to meet the industry's most advanced broadcasting requirements – today and in the future.

VENICE
THE MULTI-CHANNEL VIDEO SERVER

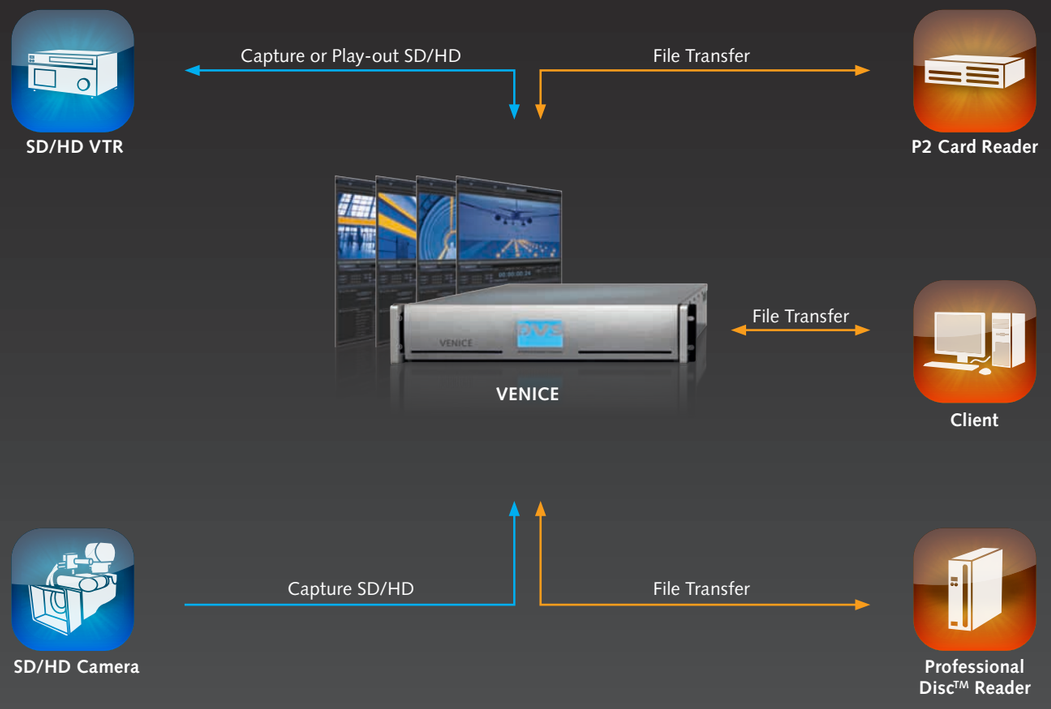
CORE OF THE DISTRIBUTION ENVIRONMENT

VENICE enables ingest, play-out and transcoding of popular broadcast formats like Avid DNxHD®, Panasonic AVC-Ultra, DVCPRO®, Sony XDCAM® and Apple ProRes 422 material. Equipped with a vast feature set, VENICE includes four independent channels, run-down lists, intelligent global scenarios, projects and presets, and a sophisticated transcoding and transwrapping engine. Positioned as the core of a distribution environment, VENICE provides fast, consistent workflows with both compressed and uncompressed video formats. With VENICE, DVS assists your team every step of the way in the migration to a sophisticated file-based broadcast workflow.

VENICE's intuitive GUI

ACCESS TO ANY CONTENT

Do several different cameras, cards and discs require sorting in order to access your content? VENICE helps you accelerate these processes. With the DVS video server, you can quickly capture live content directly from cameras or ingest material from tape recorders, P2 cards or Professional Disc™ players. VENICE supports both compressed and uncompressed formats typically used in broadcast workflows. Even more convenient: Your editing systems can directly access the video data for further processing. Content stored on VENICE can be played out via two or four independent video channels.



EFFICIENT PROJECTS

Save valuable time for your creativity and leave behind tedious tasks like format conversion. VENICE captures content directly in your desired format. Since the DVS video server natively supports common broadcast formats such as Avid DNxHD®, Panasonic DVCPRO® and AVC-Ultra, Sony XDCAM® or Apple ProRes 422, the different data formats can be converted and distributed in production environments on-the-fly. VENICE provides perfect images right away – processing your projects with maximum efficiency.

FILE-BASED WORKFLOW

For a modern file-based workflow, VENICE acts as the hub between the "signal" and the "files" world. Content coming directly from Panasonic's P2 Cards, Sony's Professional Disc™ or SxS™ memory cards can be copied effortlessly over the network to VENICE's local storage. If additional storage is required, powerful solutions like the DVS SpycerBox or DVS-SAN can be connected via Fibre Channel. Content from P2 cards or Professional Discs™ can be played out directly via SDI or HDMI/DVI to other video devices.

DVS
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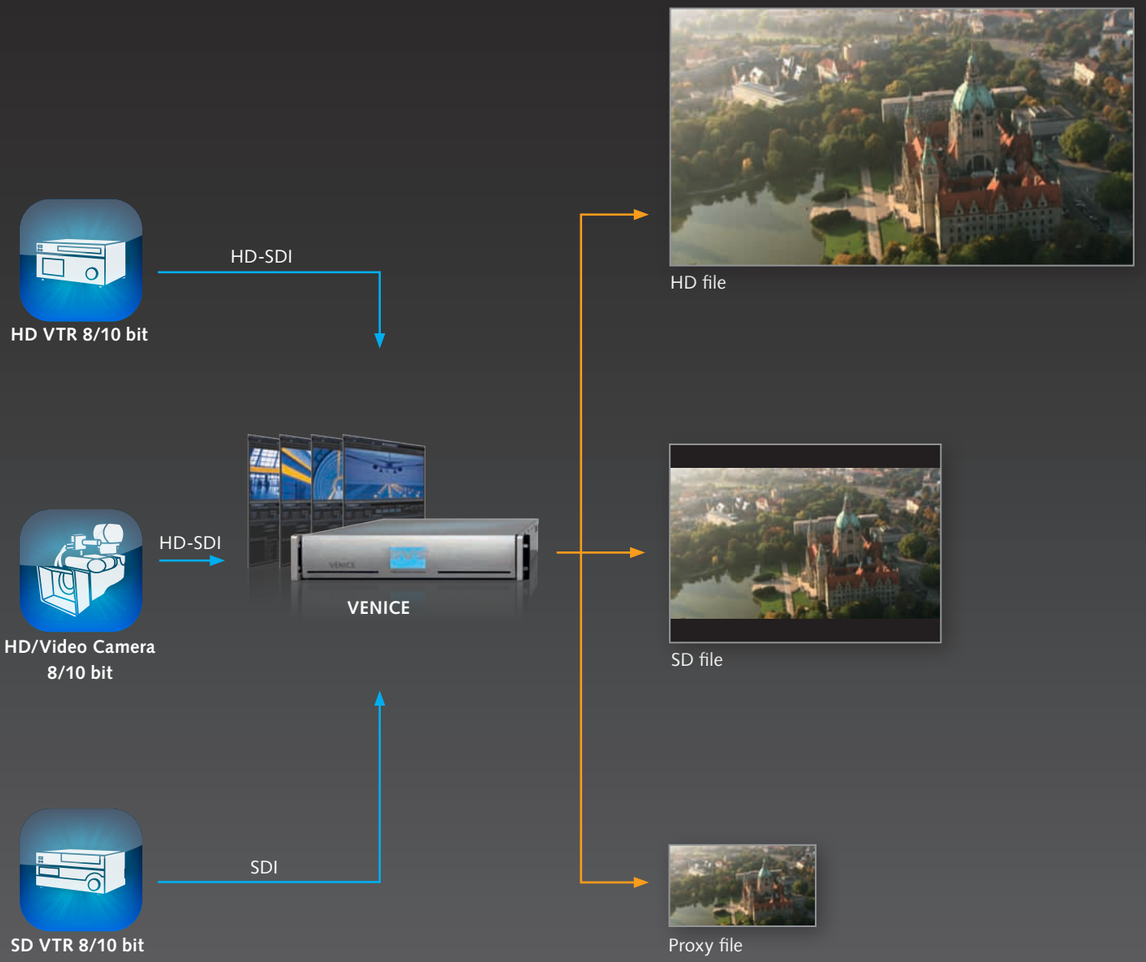
VENICE THE MULTI-CHANNEL VIDEO SERVER

FREE UP YOUR NON-LINEAR EDITING SYSTEMS (NLE)

With VENICE you can directly capture SD/HD-SDI signals into specific codecs typically used by editing systems. Just use content from a VTR, encode it directly as Avid DNxHD® MXF files and drag and drop them into the Media Tool. With the Avid® Workflow Option, VENICE supports direct ingest to Avid ISIS® shared storage and metadata check-in into Avid Interplay® production asset management (PAM). Tedious importing processes are a thing of the past. Free your NLE systems from capturing jobs and run them on VENICE in parallel with your editing work.

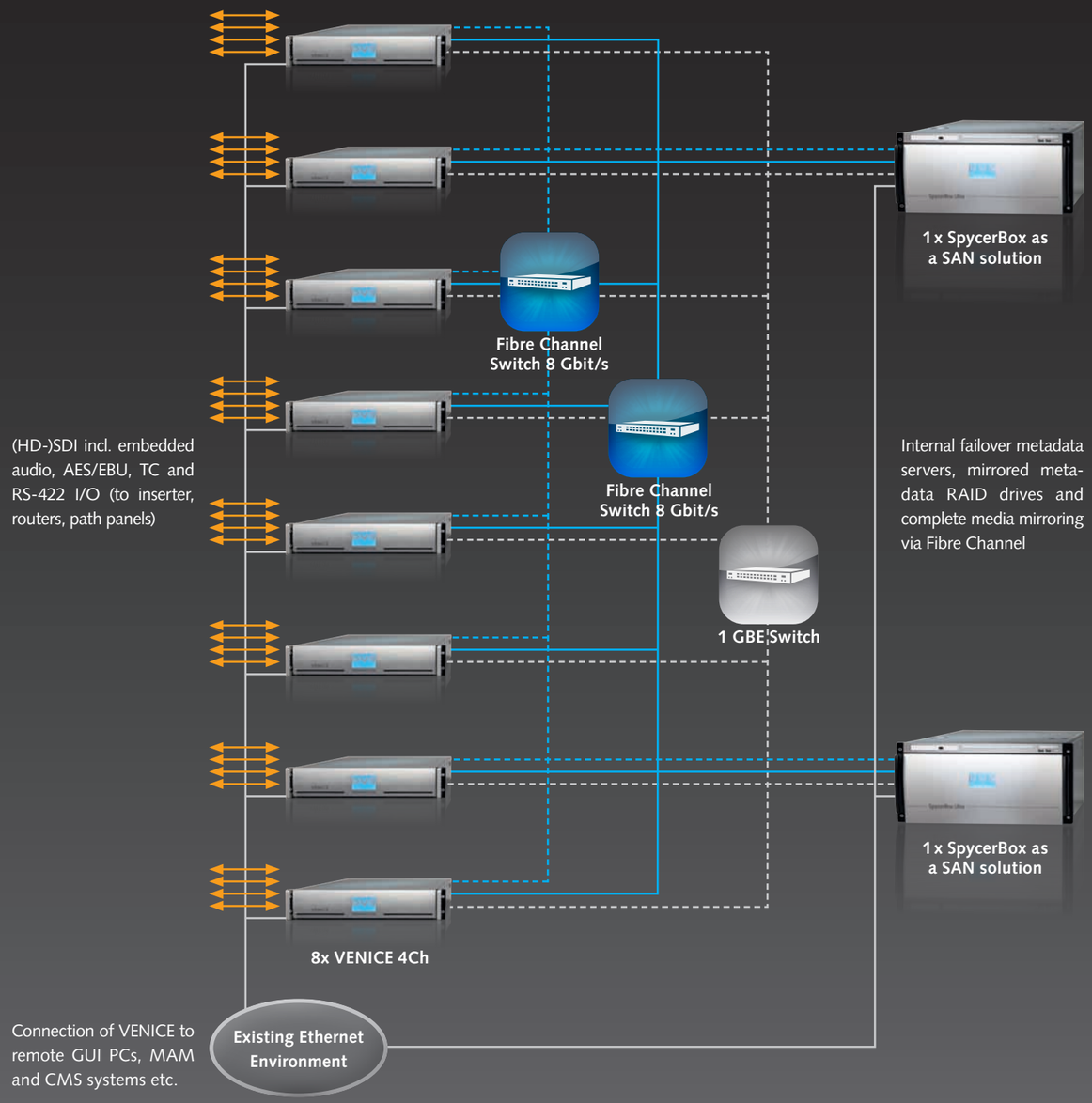
UNCOMPRESSED COLLABORATION WITH GRAPHIC WORKSTATIONS

Graphic designers and compositing artists require the best video quality for their creative work. Meet their demands flawlessly – with uncompressed graphic file sequences of each clip for brilliant keys and color corrections in RGB 444 quality. VENICE records SD, HD and even 2K signals directly into uncompressed file sequences like DPX, BMP or TIFF. Once captured, they are immediately available for play-out over SD/HD-SDI or HDMI/DVI to other video devices, such as a video switcher or a VTR.



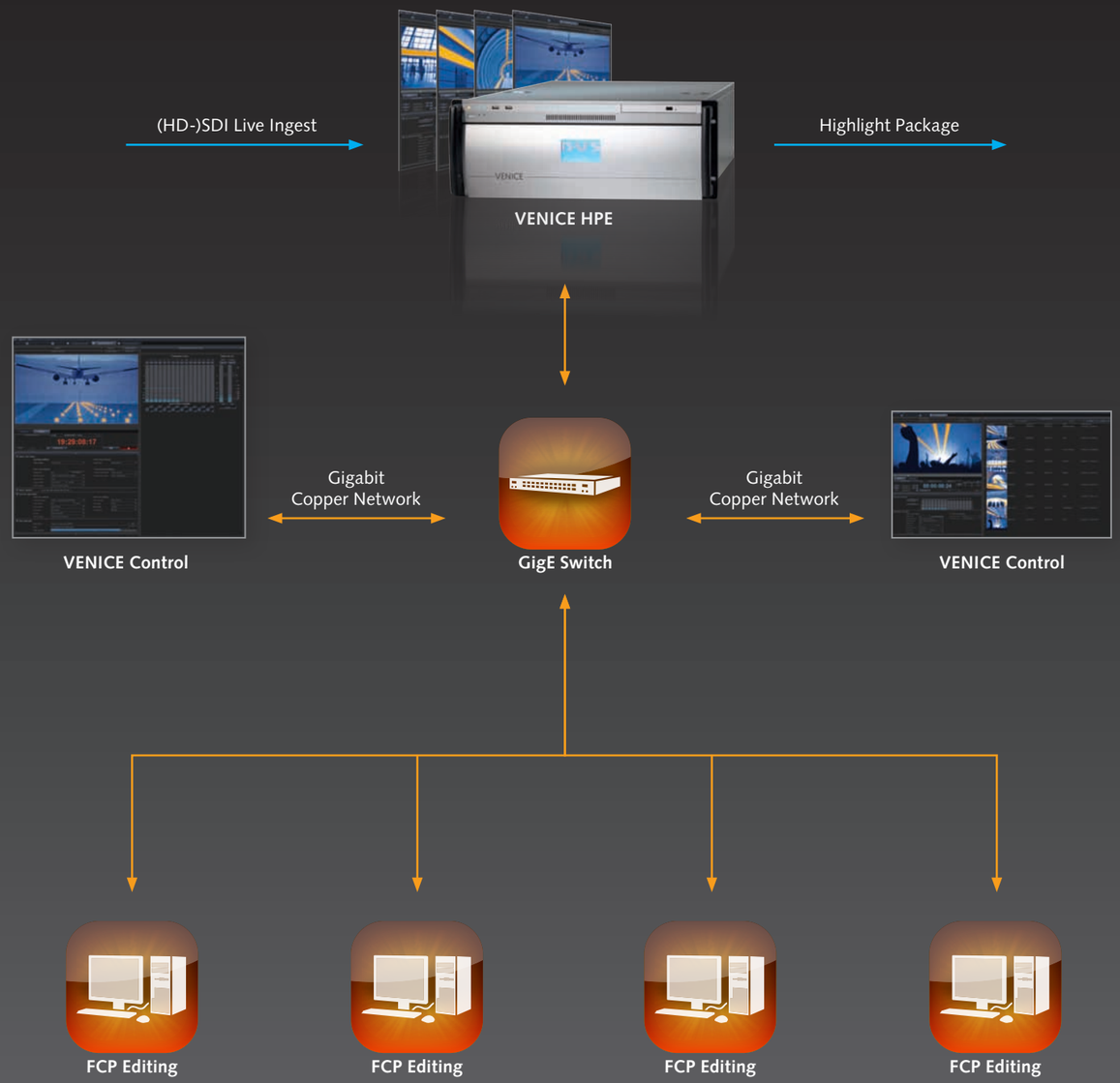
MULTI-FORMAT FOR EASY PLAY-OUT TASKS

In broadcast, handling many different video and file formats is a constant. A core requirement for today's broadcast workflow is support of SD or HD (720p, 1080i/p) and the processing of different file types like MXF OP-Atom, MXF OP-1a or QuickTime®. VENICE can efficiently play out different compressed and uncompressed formats and several video formats from one playlist without extensive pre-conversion. The video server can be controlled with the integrated GUI, the remote GUI or from third-party applications via MOS, RS-422, VDCP or the SOAP-API.


(HD-)SDI incl. embedded audio, AES/EBU, TC and RS-422 I/O (to inserter, routers, path panels)
Fibre Channel Switch 8 Gbit/s
1 x SpycerBox as a SAN solution
Fibre Channel Switch 8 Gbit/s
1 GBE Switch
Internal failover metadata servers, mirrored metadata RAID drives and complete media mirroring via Fibre Channel
8x VENICE 4Ch
1 x SpycerBox as a SAN solution
Connection of VENICE to remote GUI PCs, MAM and CMS systems etc.
Existing Ethernet Environment

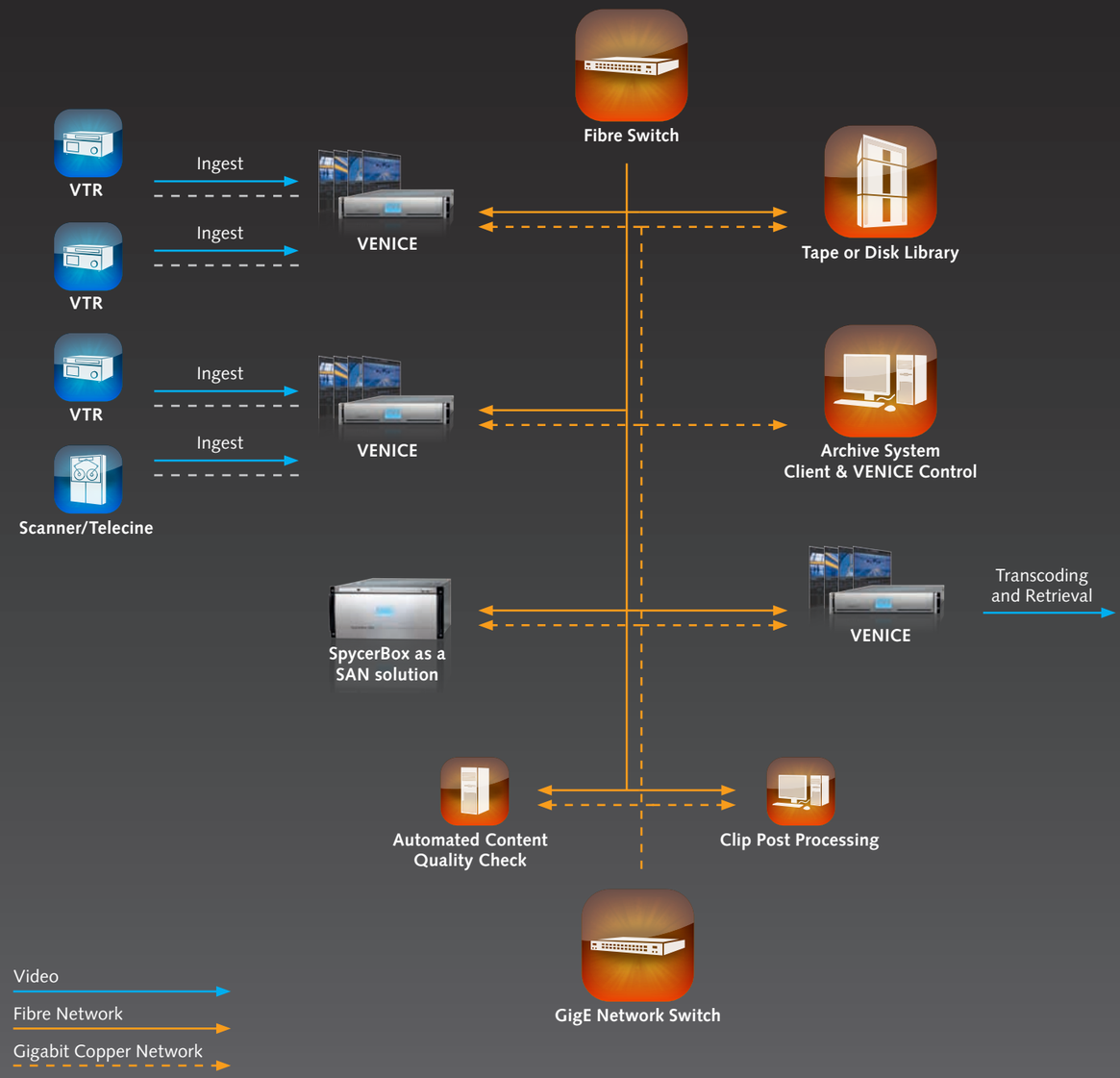
FAST MEDIA TURNAROUND IN LIVE SPORTS PRODUCTION

VENICE provides incoming media to attached editing workstations without media transfer. In live sports production, VENICE ingests multiple channels via HD-SDI – editors have instant access, even while the media is still being recorded. The editing systems can be directly attached to VENICE via Ethernet, while the DVS video server itself provides NAS storage. Highlight packages of the event are available immediately and can be played out by VENICE either during the break or after the match session.



ACCELERATE YOUR ARCHIVE WORKFLOW WITH VENICE

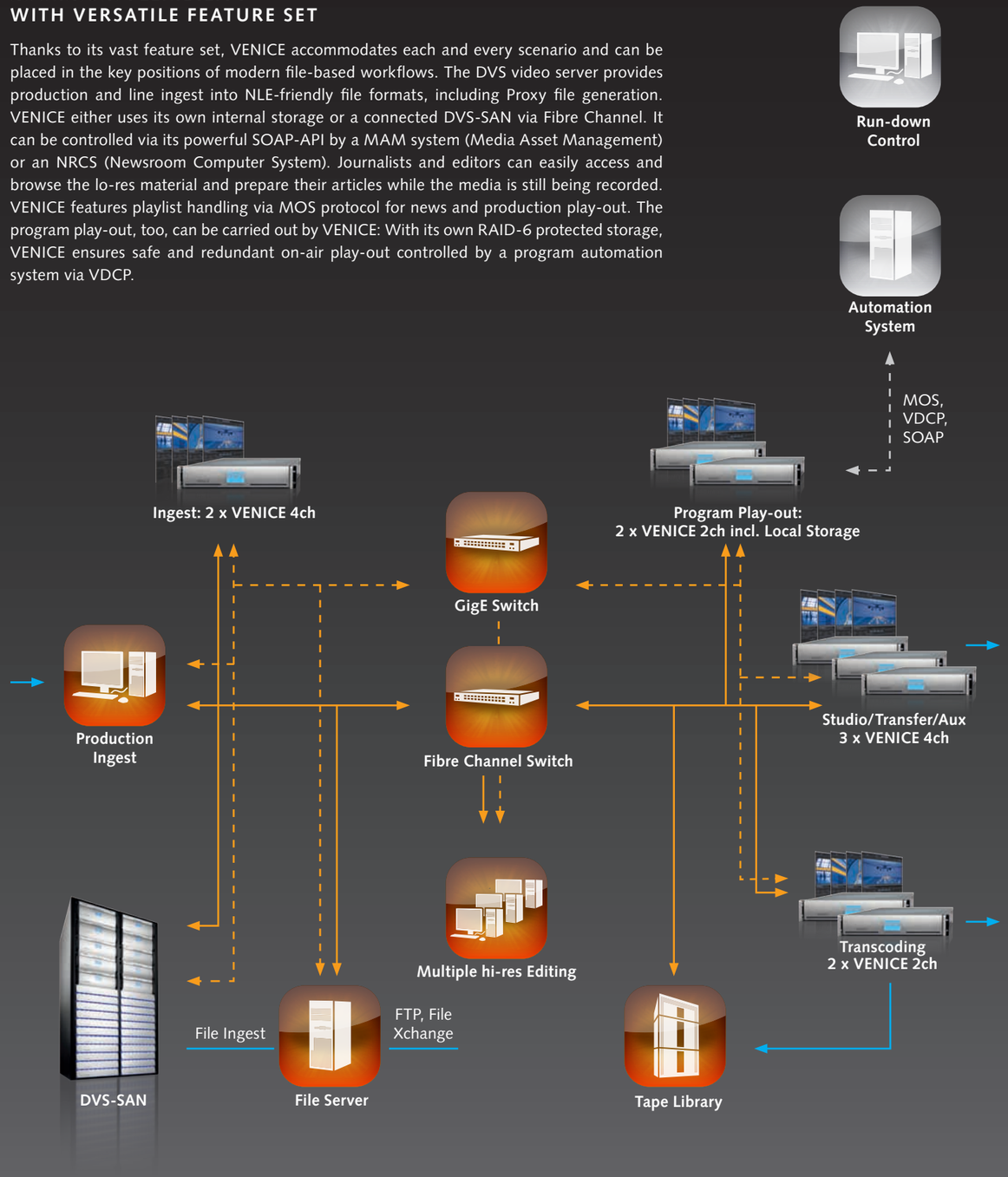
VENICE also offers an ideal solution for digitizing large amounts of tape and film content in high quality. With its support of high-quality codecs such as AVC-Intra Class 200, VENICE opens up a host of additional opportunities. Since VENICE manages native real-time capturing, simultaneously scaling the different formats and raster formats it is perfectly suited for archive environments. The open JPEG2000 codec-container combination offers an excellent picture quality while providing open, manufacturer-independent access to the archived data.



VENICE THE MULTI-CHANNEL VIDEO SERVER

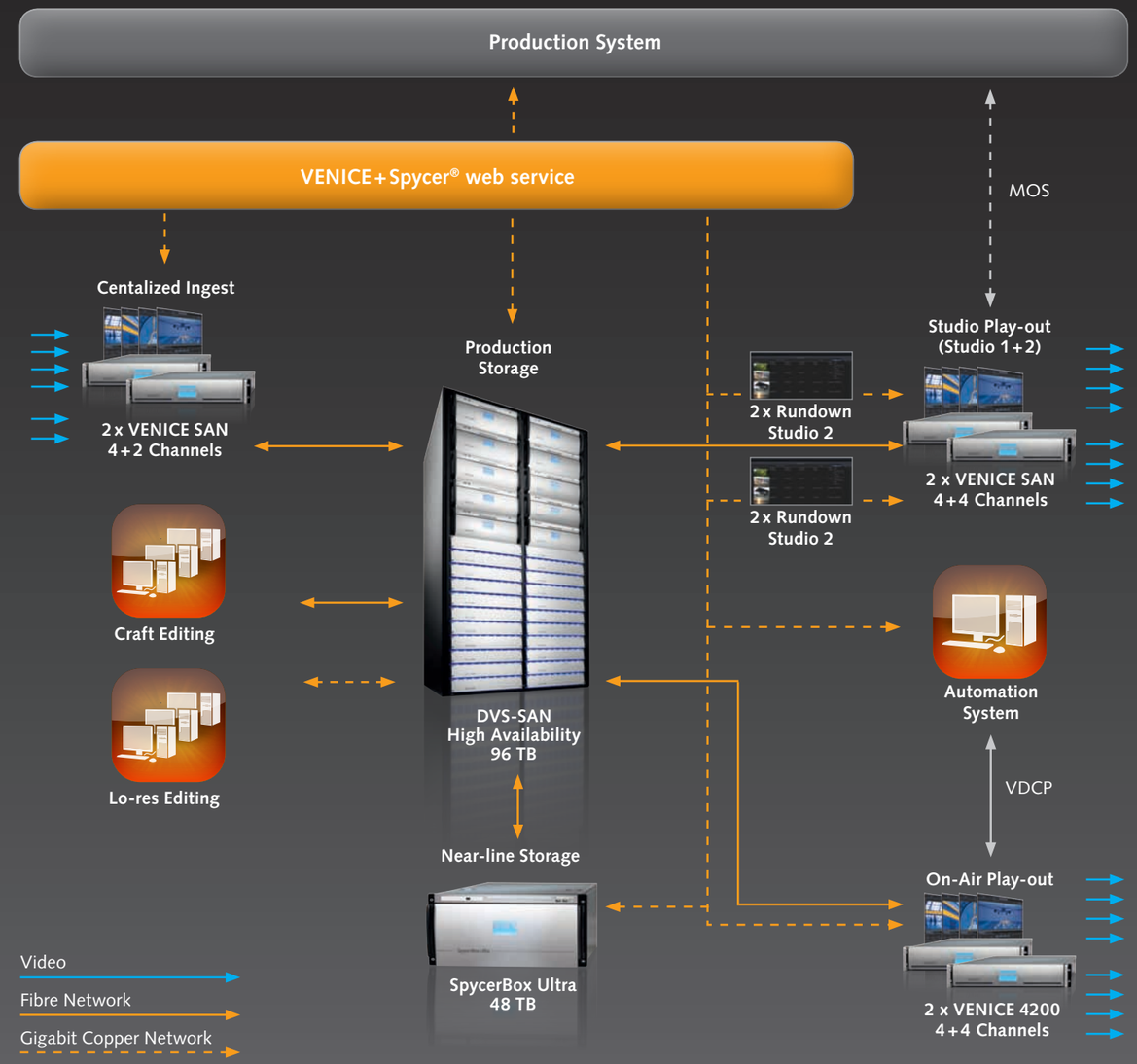
MAXIMUM FLEXIBILITY WITH VERSATILE FEATURE SET

Thanks to its vast feature set, VENICE accommodates each and every scenario and can be placed in the key positions of modern file-based workflows. The DVS video server provides production and line ingest into NLE-friendly file formats, including Proxy file generation. VENICE either uses its own internal storage or a connected DVS-SAN via Fibre Channel. It can be controlled via its powerful SOAP-API by a MAM system (Media Asset Management) or an NRCS (Newsroom Computer System). Journalists and editors can easily access and browse the lo-res material and prepare their articles while the media is still being recorded. VENICE features playlist handling via MOS protocol for news and production play-out. The program play-out, too, can be carried out by VENICE: With its own RAID-6 protected storage, VENICE ensures safe and redundant on-air play-out controlled by a program automation system via VDCP.



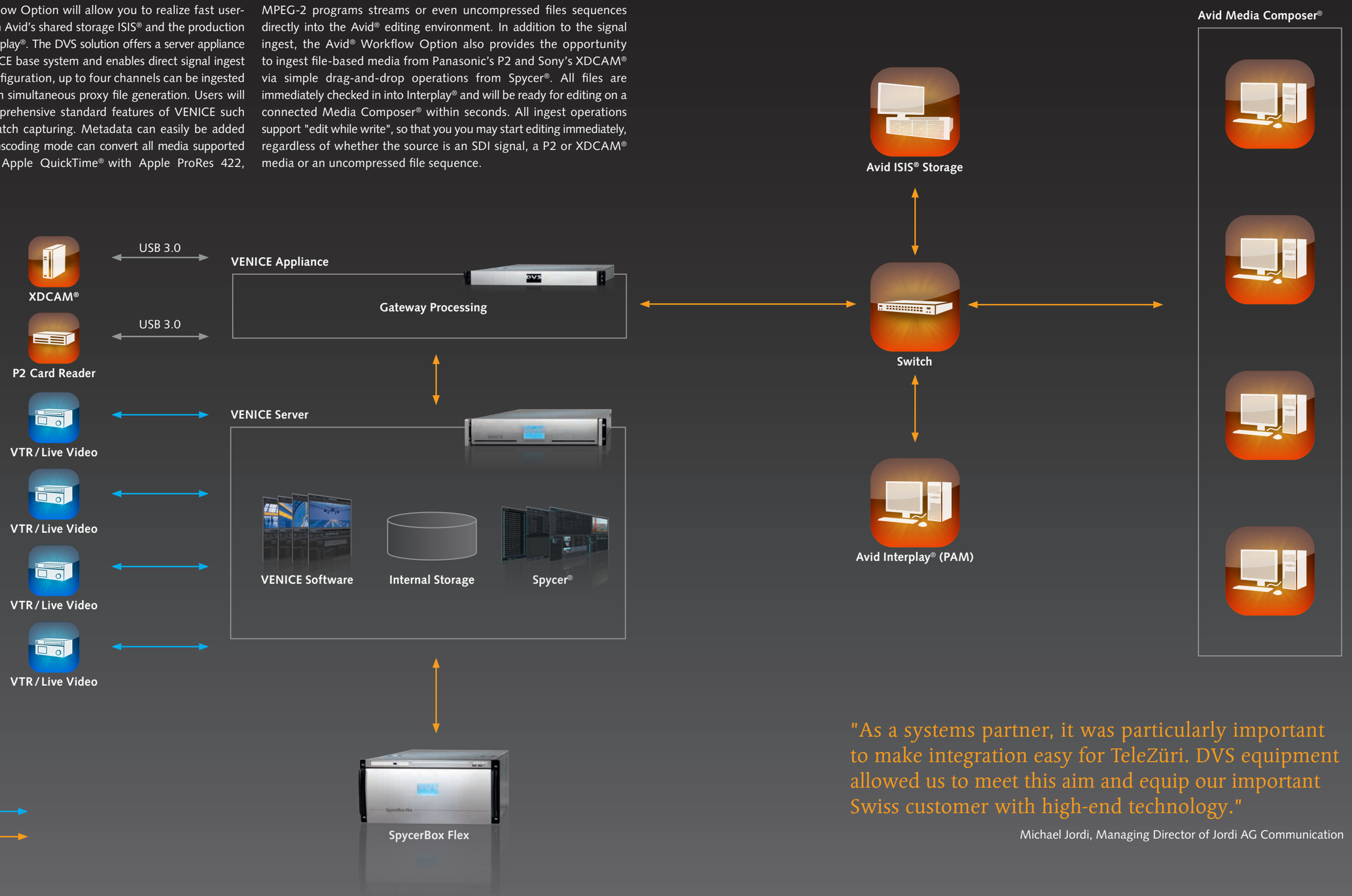
"We benefit enormously from the introduction of tapeless workflows using DVS technology. The VENICE systems provide us with considerable time savings, allowing us to respond more quickly and flexibly in our current broadcast operations."

Peter Canale, Head of Business and Technology at TeleZüri



EFFICIENT WORKFLOWS WITH AVID ISIS® AND AVID INTERPLAY®

The new Avid® Workflow Option will allow you to realize fast user-friendly workflows with Avid's shared storage ISIS® and the production asset management Interplay®. The DVS solution offers a server appliance connected to the VENICE base system and enables direct signal ingest via HD-SDI. In this configuration, up to four channels can be ingested in parallel together with simultaneous proxy file generation. Users will also benefit from comprehensive standard features of VENICE such as VTR control and batch capturing. Metadata can easily be added to media files. The transcoding mode can convert all media supported by VENICE, such as Apple QuickTime® with Apple ProRes 422, MPEG-2 programs streams or even uncompressed files sequences directly into the Avid® editing environment. In addition to the signal ingest, the Avid® Workflow Option also provides the opportunity to ingest file-based media from Panasonic's P2 and Sony's XDCAM® via simple drag-and-drop operations from Spycer®. All files are immediately checked in into Interplay® and will be ready for editing on a connected Media Composer® within seconds. All ingest operations support "edit while write", so that you you may start editing immediately, regardless of whether the source is an SDI signal, a P2 or XDCAM® media or an uncompressed file sequence.



"As a systems partner, it was particularly important to make integration easy for TeleZüri. DVS equipment allowed us to meet this aim and equip our important Swiss customer with high-end technology."

Michael Jordi, Managing Director of Jordi AG Communication

STEREO 3D CORRECTION AND INGEST

Shooting live in 3D is a major challenge since many parameters like stereo baseline, color, geometry and camera distance from the object change from scene to scene. Also, high image quality with a low compression is a requirement for 3D live and post production. Equipped with STAN (Stereoscopic Analyzer), VENICE assists camera operators and production staff in setting these critical stereo parameters and enables high-quality stereo recording in a single turnkey system.

- **Real-time analysis and correction of geo distortions for live stereo 3D production**
- **Stereo 3D on-air correction: even when camera is moving or zooming**
- **State-of-the-art equipment: high-quality stereo recording**
- **NLE-friendly file formats and metadata recording for post production**
- **Small form factor: no need for extra 3D processing equipment**

STAN 3D Real-time Correction

Multi-channel Ingest

HD-SDI (uncorrected)

VENICE

Fibre Channel

SpycerBox

Fibre Channel

3D Display

VENICE

HD-SDI (corrected)

Video Switcher

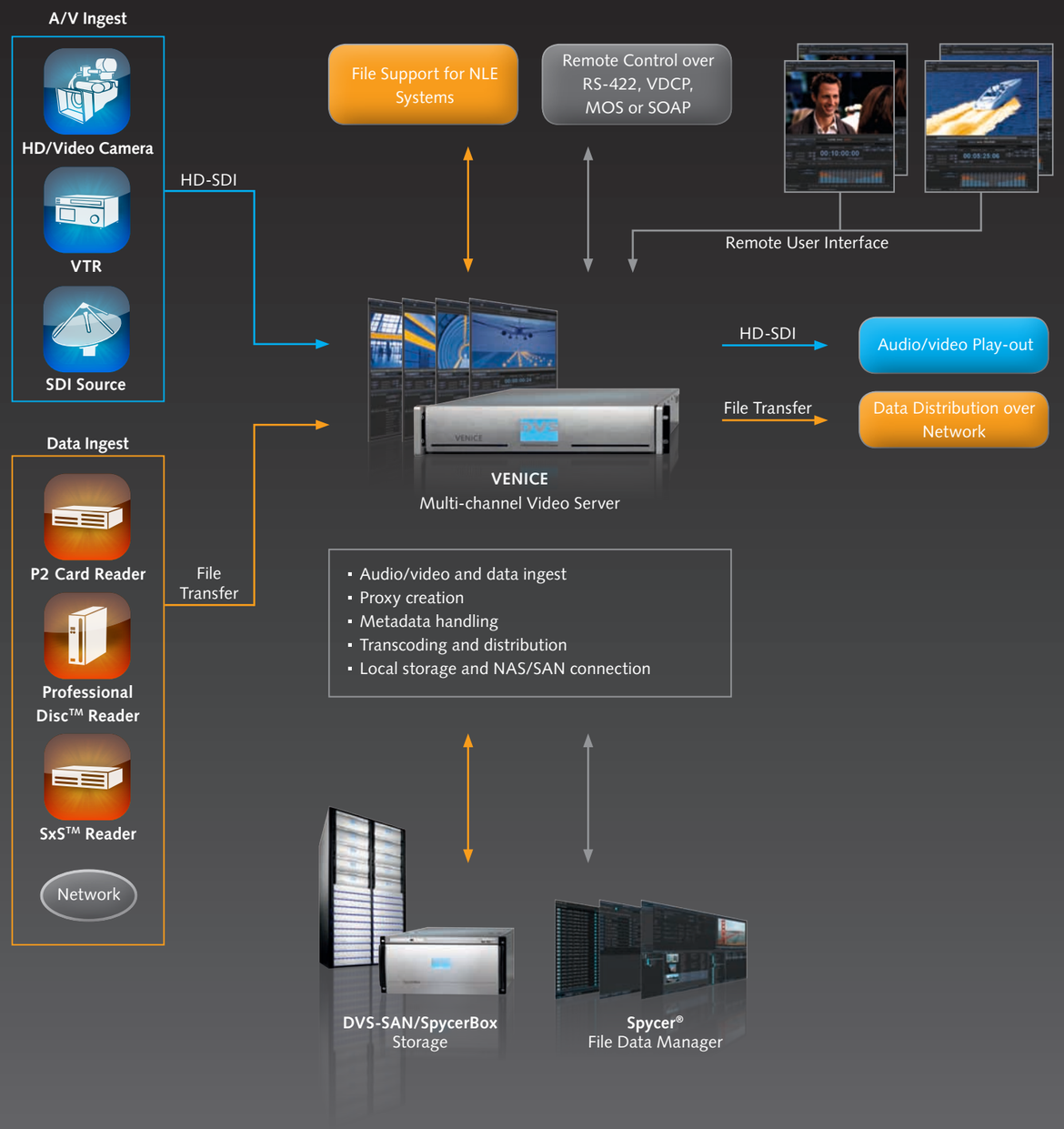
Automation Control

RS-422 VDCP

VENICE THE MULTI-CHANNEL VIDEO SERVER

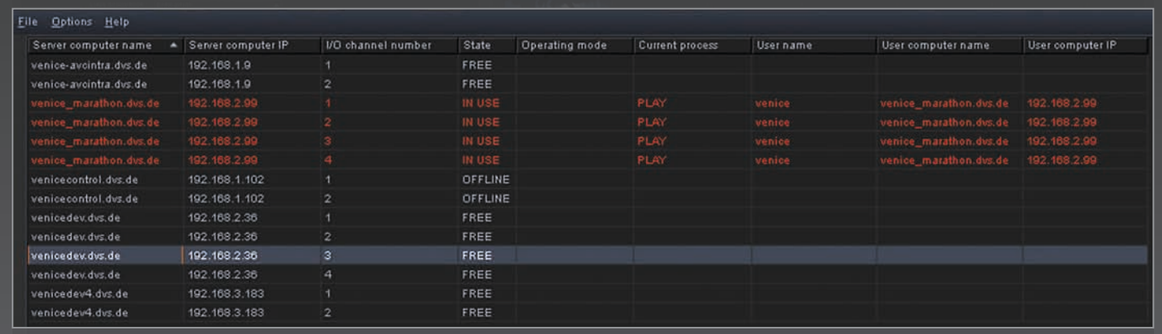
OPEN PHILOSOPHY

DVS realizes you are faced with the unique demand for both time-sensitive and high-quality content delivery, and shares its philosophy of openness. VENICE offers an open file system structure supporting all SAN interfaces. Moreover, the fully open storage architecture allows for an individual workflow design including editing clients, e.g. Media Composer® and Final Cut Pro® systems. Integrate VENICE freely into any existing network structure and expand your storage via common interfaces like Fibre Channel.



VENICE REMOTE USER INTERFACE

VENICE provides a comprehensive software package and runs on a Red Hat Enterprise Linux platform. The full Spycer® data management software is pre-installed on the system to provide all content information for the remote user interfaces. The remote GUI is an efficient and effective tool, tailored to your needs: Control the video server from your own desk, arranging and coordinating the server jobs. The remote user interface is available for Windows®, Mac OS®, and Red Hat Enterprise Linux.


File Options Help
Server computer name | Server computer IP | I/O channel number | State | Operating mode | Current process | User name | User computer name | User computer IP
venice-avcintra.dvs.de | 192.168.1.9 | 1 | FREE
venice-avcintra.dvs.de | 192.168.1.9 | 2 | FREE
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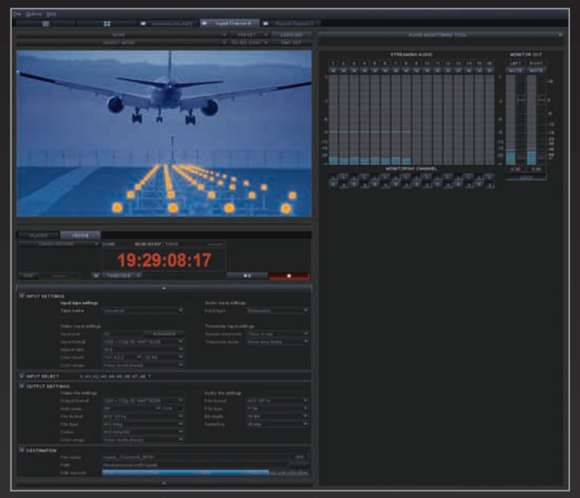
When opening the application on your server or client, all available VENICE channels in your network environment are listed, no matter how many servers you have.

VENICE THE MULTI-CHANNEL VIDEO SERVER



FORMAT VERSATILITY

While everyday TV production presents greater challenges, DVS designed VENICE to make your life easier: VENICE supports all major broadcast codecs such as Avid DNxHD®, Panasonic AVC-Ultra, XDCAM® HD 422, Apple ProRes 422. All major file formats are supported as well: MXF OP-Atom, MXF OP-1a, QuickTime®, transport stream and GXF. Due to its open software design, future implementations of new codecs and containers are simple.

PROXY FILES IN PARALLEL

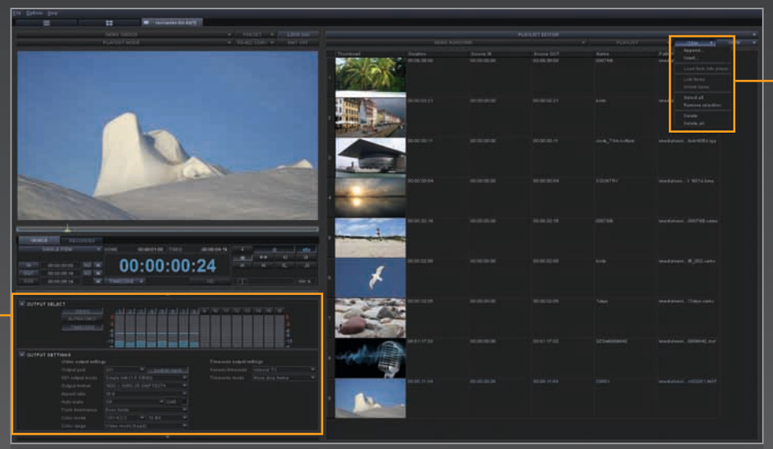
In addition to the hi-res ingest, proxy files can be created in parallel to meet proxy file-based workflows. Available proxy file formats are MPEG-1, MPEG-2 and MPEG-4 (AVC/H.264). Choose QuickTime®*.mp4 as the container format or the "read while write"-capable *.T2S transport stream.

CHANNEL GROUPING

With the new channel-grouping feature, VENICE enables parallel recording of e.g. stereoscopic material as well as frame-accurate starting and play-out of multiple grouped channels. This proves extremely helpful, especially in multi-camera productions: Create a channel group to ingest or play out several channels simultaneously. Channel grouping can be used with RS-422 or a TCP/IP connection. Simply use your existing Ethernet network to link one or more VENICE channels, regardless of whether they are on the same server or on different ones. This allows you to create a large cluster of ingest or play-out devices. Channel groups can be stored and reopened.

DYNAMIC PLAY-OUT

VENICE's new dynamic playlists bring flexibility to your workflow, and ensure that your videos are always up to speed. VENICE is a multi-tasker. Even during play-out, you can easily change clip sequences in the run-down: Whether adding new files to the playlist or deleting those no longer needed, VENICE can handle it all while already playing out. You can even set up mixed playlists, with clips of different resolutions, codecs or containers. Video material will be converted from SD to HD or from HD to SD in real time. There is no additional equipment required – a true plus in multi-resolution environments.



OUTPUT SETTINGS

Hardware scaler for up- and down-conversion

ITEM MENU

Adding and re-arranging of clips while playing out

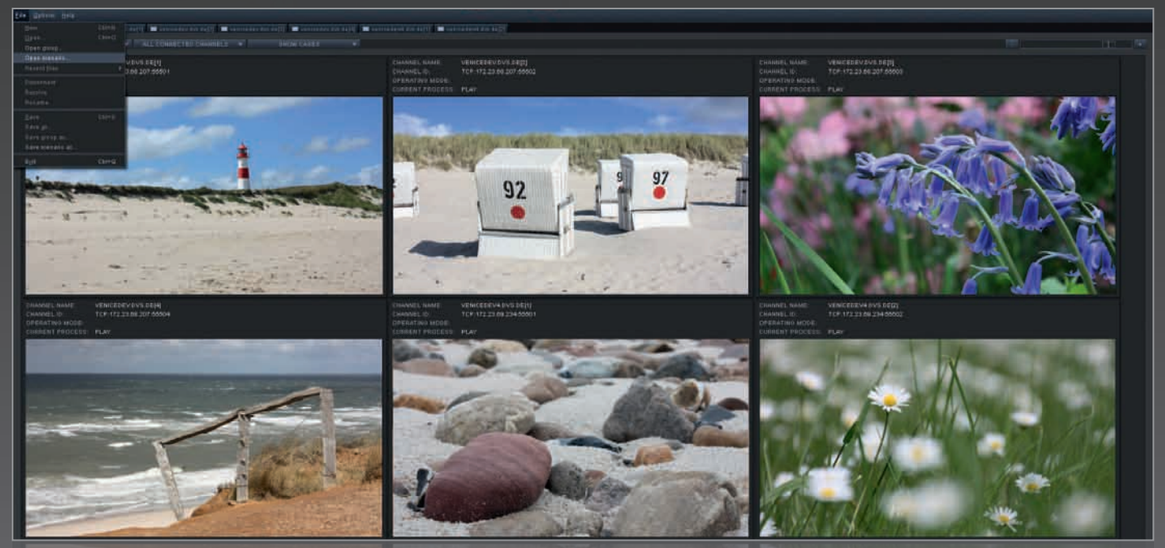
PLAYLIST

With mixed file formats, resolutions and codecs

VENICE play-out mode

SCENARIOS

The scenarios are an enhancement of the concept of saving presets and projects. To set up complex situations for ingest, play-out and transcoding with multiple channels the operator can now save a complete snapshot of the user interface with multiple channels: The scenario then contains all acquired channels, all modes, projects and presets for each of the channels. Going back to a saved scenario is simple with just one click and VENICE automatically connects to the required channels and loads the right project and preset for every channel.



SPYCER®
THE COMPLETE CONTENT CONTROL

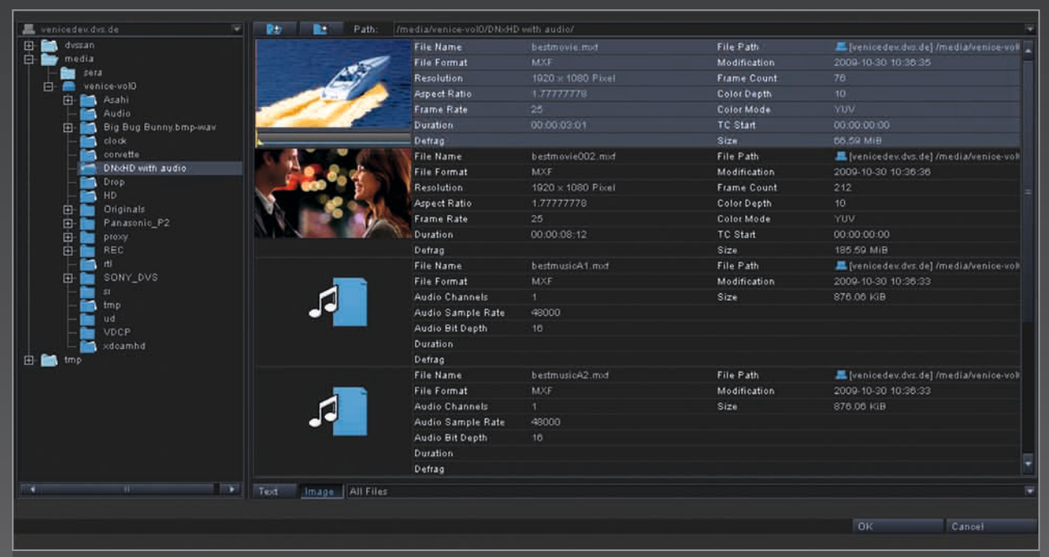
INTELLIGENT DATA MANAGEMENT

Are you lost in vast amounts of data and desperately need to locate a particular image sequence? With Spycer®, data management and optimization are a breeze. Fully integrated into VENICE, Spycer's extensive range of media management features will bring order onto any data chaos. Search and process your images and image sequences effortlessly with the sophisticated DVS appliance.

COMPLETE CONTENT CONTROL

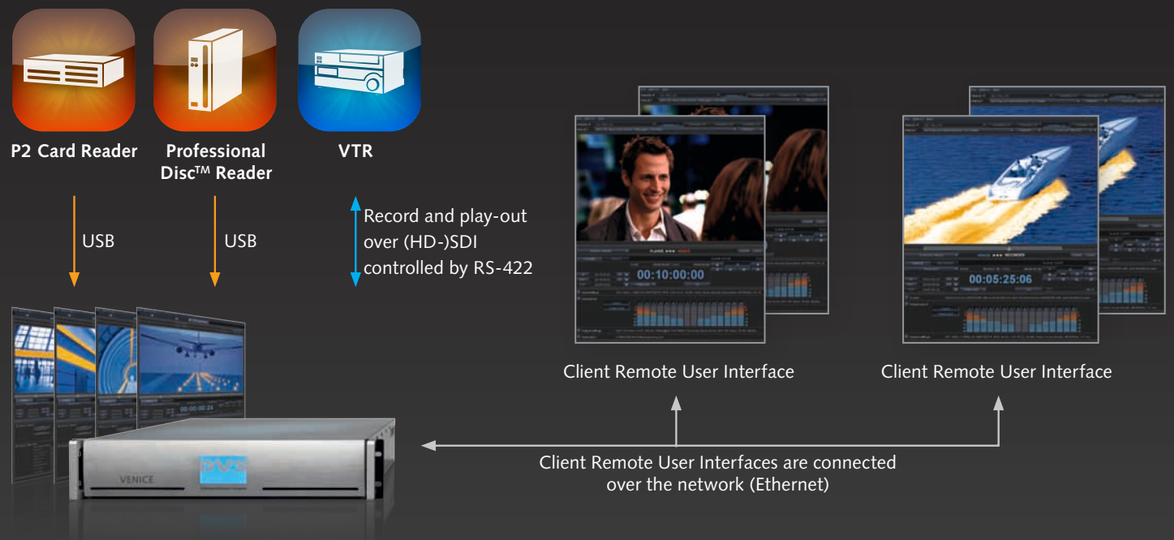
DVS's innovative Spycer® data management software enables you to review and manage extremely large volumes of data effectively. Create a transparent network that makes the contents of all connected systems available for viewing and editing by means of a wide variety of tools. When handling large video data volumes is part of your daily workflow, use Spycer® to gain an overview of the contents in all your storage systems and workstations. The user-friendly DVS software lets you effortlessly manage your entire content – which is continuously added by SD/HD or film cameras, VTRs, SDI sources, P2 card readers, Professional Disc™ Readers, etc. DVS has designed Spycer® as an open platform for easy integration into existing technological infrastructures.

- **Preview and play out your files and metadata located anywhere in your network**
- **Correct and edit the names of file sequences in a single step**
- **Edit and amend the metadata in the file headers**
- **MXF support for broadcast content like DVCPRO®, XDCAM® or DNxHD® or Apple ProRes 422**
- **Display of ANC metadata**
- **Use the unique defragmenting tool to maximize your storage's performance**
- **High-speed copying features help you steer clear of nerve-racking process delays**
- **Bandwidth limitation**
- **Secure copy**
- **FTP server access**
- **Grass Valley K2 server access for file transfer and outgest**
- **Combine Spycer® with your applications using the SOAP-API**
- **File ingest from P2 Professional Disc™ and XDCAM®**



VENICE HARDWARE

VENICE is a video server which can be controlled over a network by its easy-to-use remote user interfaces. The system offers local RAID-6 protected storage, redundant system drives and power supplies, as well as all the common video, audio, timecode, and remote control interfaces. VENICE's server software directly communicates with the remote user interfaces and provides all necessary information about the different image, timecode, path, or codec settings via the network.



VENICE MODULE COMBINED WITH SPYCERBOX

VENICE's core is also available as a separate module which can be connected directly to the SpycerBox. This combination provides up to 72 TB SATA storage with 2 channels I/O using only 7U rackspace.

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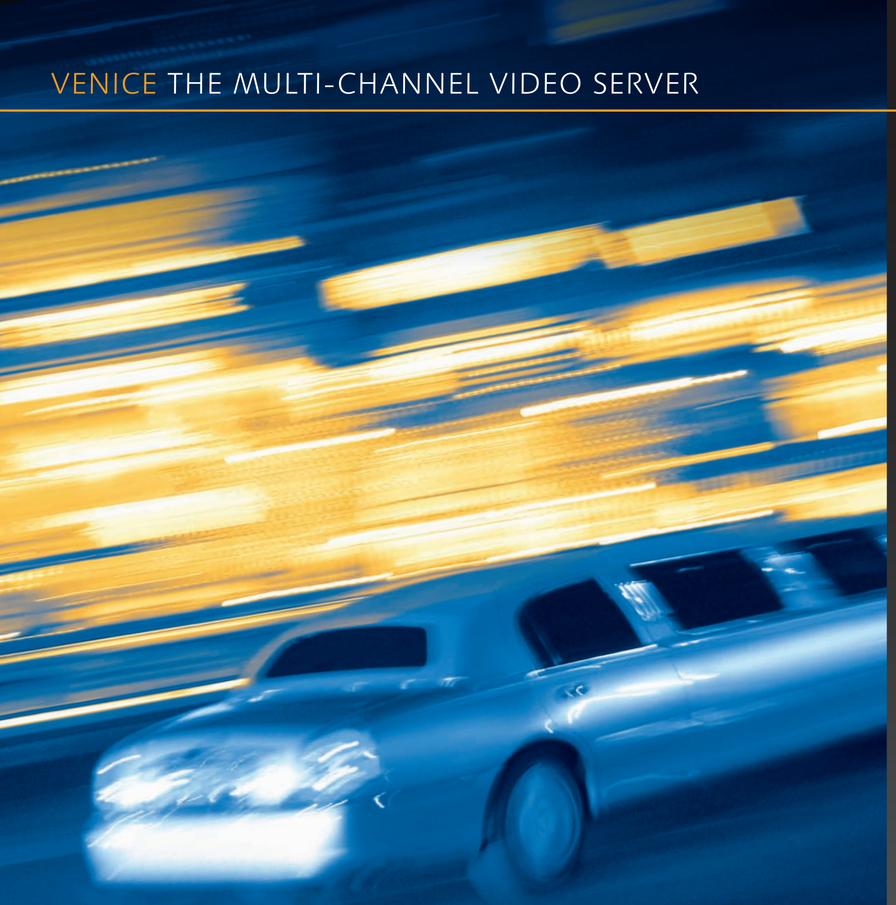

"With VENICE, DVS demonstrates how one realizes ambitious workflows in the presentation sector. With our new video servers from DVS, we offer our clients a stable, unique solution. Like all DVS products, VENICE is an extremely reliable system with which we plan long-term."

Hubertus Beckmann, Head of Engineering at LANG AG

KEY FEATURES

- Video server for broadcast environments
- Scalable multi-channel system (2 or 4 channels per unit, multiple units can be clustered)
- Ingest, play-out and transcoding in one single box
- Open software structure combining video and IT workflows in broadcast environments
- Hardware scaler for up- and down-conversion in real time
- Support of Avid DNxHD®, Panasonic DVCPRO®, AVC-Intra 50/100, AVC-Intra Class 200, Sony XDCAM® or Apple ProRes 422 material
- Easy-to-use remote user interface for Windows®, Mac OS®, and Linux®
- Run-down lists, intelligent presets and defaults for smooth operation
- Batchlist recording and transcoding
- Channel grouping for multicamera ingest or stereo 3D play-out via TCP/IP
- Remote control via Sony 9-pin (RS-422)
- Process SD and HD data in parallel for simulcast operation
- Support of VDCP and MOS protocol
- MXF OP-Atom, MXF OP-1a and QuickTime® files
- Support of uncompressed file sequences like DPX, TGA, TIFF, BMP etc.
- ANC Data support
- Full Spycer® license for media management
- Avid® Workflow Option to connect to Avid ISIS® and Avid Interplay® production asset management (PAM)
- Connect to DVS-SAN or SpycerBox via Fibre Channel
- Interfaces: 1 or 10 Gbit Ethernet, Fibre Channel
- IPMI 2.0 (Intelligent Platform Management Interface) for remote system management

REMOTE USER INTERFACE

- Fast video channel selection and operation via TCP/IP
- Channel grouping for multi-camera and 3D ingest
- Direct play-out of compressed formats originating from Sony or Panasonic cameras
- Loop play for VENICE as a player
- Transport functions and scrub bar for VENICE as a player
- GOTO function for VENICE and the RS-422 device as a recorder
- In- and outpoints for clips
- Direct capturing into compressed formats over (HD-)SDI
- Controllable via RS-422 in server and client mode
- VTR control over network using VENICE's remote interface
- Dynamic playlists for automated back to back play-out
- Global scenarios, projects and presets for defining settings used on a daily basis
- Sophisticated browsing of all network clients
- Audio monitoring with peakmeter for 16 audio channels

CODECS

- Avid DNxHD® 36 – 440
- Panasonic DVCPRO® 25/50
- Panasonic DVCPRO® HD 100
- Panasonic AVC-Intra 50/100
- Panasonic AVC-Intra Class 200
- Sony XDCAM® DV 25
- Sony XDCAM® IMX 30/40/50
- Sony XDCAM® HD 18/25/35
- Sony XDCAM® EX 35 Mbps (OP-1a)
- Sony XDCAM® HD 422
- Apple ProRes 422/444 (LT/HQ)
- MPEG2
- H.264 AVC (high profile 4:2:2)

FILE FORMATS (DEPENDING ON THE CODEC)
COMPRESSED FORMATS

- MXF OP-1a
- MXF OP-Atom
- QuickTime®
- DV-DIF
- GXF
- MP4

UNCOMPRESSED FORMATS

- DPX 8/10 bit RGB 4:4:4
- DPX 8/10 bit YUV 4:2:2 or RGBA 4:4:4:4
- QuickTime® 8/10bit YUV 4:2:2
- WAV, AIFF
- RF64: Extensible wave format with BWF extension (>4 GB)

VIDEO FORMATS

PROXY FILE FORMATS

- MPEG-1
- MPEG-2
- MPEG-4 (AVC) .mp4 (QuickTime®)
- MPEG-4 (AVC) .m2t

SDTV SDI

- 525i /29.97 (NTSC)
- 625i /25 (PAL)

HDTV SDI

- 1280 x 720p /23.98/24/25/29.97/30/50/59.95/60
- 1920 x 1080i /23.98/24/25/29.97/30/50/59.95/60
- 1920 x 1080p /23.98/24/25/29.97/30
- 1920 x 1080p /50/59.95/60 (one channel only)

2K SDI (ONE CHANNEL ONLY)

- 2048 x 1080p /23.98/24/25

VIDEO I/O

- Autodetecting 1,5 / 3 Gbit/s single-link SD/HD-SDI input and output
- Dual-link SD/HD-SDI input and output (up to two channels per unit; for keying or 4:4:4 operations)
- HD/SD genlock input, 1× BNC
- HDMI output

AUDIO INTERFACES PER VIDEO CHANNEL

- 8 channels digital audio AES/EBU
- 16 channels embedded audio at SDI connector

CONTROL INTERFACES

- RS-422 remote, 1 × DSub 9 pin
- LTC input and output, 1 × XLRf and 1 × XLRm
- VDCP and Sony 9-pin protocol support
- SOAP-API (Simple Object Access Protocol) for third-party applications
- Playlist handling via MOS protocol

SYSTEM

- 2U 19" rack mount with rack mount rails
  Dimensions: 480 mm (W) x 88 mm (H) x 640 mm (D)
  or
  4U 19" rack mount with rack mount rails
  Dimensions: 480 mm (W) x 176 mm (H) x 655 mm (D)
- Graphics adapter with DVI
- DVD reader/writer on 4U chassis
- Redundant power supply (1500 W + 500 W 4U chassis, 2 x 750 W 2U chassis)
- Power Supply A-C 100-240 V 50/60 Hz

STORAGE

- SAS drives (RAID-1) for operating system and metadata
- Up to 9 TB SAS drives (RAID-6) for content

INTERFACES

- 8 × USB 2.0 (two at front, six at rear on 4U chassis)
- 1 x USB 3.0 at front, 2 x USB 2.0 at rear on 2U chassis
- 2 x 10/100/1000 Base-T Ethernet
- 2 x 10 Gbit Ethernet (optical) on 2U chassis
- 1 x 1000 Base-T Ethernet for remote system management access (IPMI)
- 10 Gbit Ethernet (option on 4U chassis)
- 8 Gbit Fibre Channel (option)

SOFTWARE

- Linux® (64 bit) operating system
- VENICE remote software for Windows®, Mac OS®, and Linux®
- Spycer® – the complete content control for VENICE video server

SERVICE

Offering superior service for our entire product portfolio is integral to the DVS philosophy. The DVS support and service team is comprised of engineers who consider first-class, professional customer service their first priority.

DVS offers optimum support and service, with service packages tailored to clients' specific needs. Our service team can assist onsite or perform services quickly and reliably via remote control. DVS also has a service website, complete with detailed technical documentation to provide current updates, upgrades, and relevant information.

Our services reflect the quality of our products: Our clients benefit from individualized support and reliable service.

Our service team is available to you at service@dvs.de

TRAINING

Learn in-depth about your new DVS product! With our comprehensive training program, we offer the opportunity to become completely at home with your DVS equipment. We're also happy to support you with the implementation and setup of your system.

The authorized DVS Education Center offers individual training programs onsite and is ready to assist you with relevant information on each workflow. We'd also be happy to welcome you at the DVS headquarters for a hands-on training session with your new equipment. You will receive concise training courses for various product updates, allowing you to immediately familiarize yourself with new developments.

Our friendly and professional training courses provide you with the detailed knowledge to make the most of your equipment.

Ask about our training packages at training@dvs.de

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